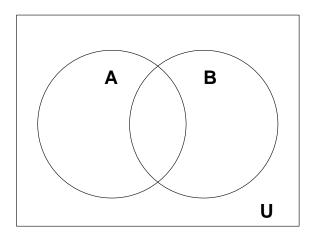
Contemporary Math (MAT-130)

Place the elements of these sets in the proper locations on the given Venn diagram:

- 1. $U = \{1,2,3,4,5,6,7,8,9,10\}, A = \{1,2,3,4,5\}, B = \{1,3,5,7,9\}$
- 2. $U = \{a, d, e, f, i, l, m, o, t, u\}, A = \{a, e, i, o, u\}, B = \{a, d, e, f, i, l\}$
- 3. $U = \{Red, Orange, Yellow, Green, Blue, Indigo, Violet\}, A = \{Red, Yellow, Blue\}, B = \{Green\}$



Use a Venn diagram similar to the one above to shade each set:

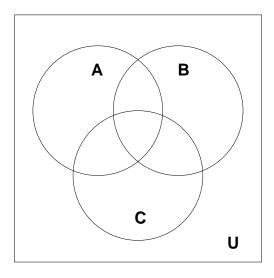
- 4. $A \cap B$
- 5. $A \cup B$
- 6. $A \cap B'$
- 7. $B \cup B'$
- 8. $(A \cup B)'$
- 9. $(A \cap B)'$
- 10. $A' \cup B$
- 11. $A' \cap A$
- 12. $A' \cap (B' \cup A')$

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Place the elements of these sets in the proper location on a Venn diagram similar to the one shown below:

13.
$$U = \{a, b, c, d, e, f, g, h, i, j\}, A = \{a, e, g, i\}, B = \{a, b, c, d, e\}, C = \{c, e, f, g, h\}$$

14.
$$U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}, A = \{4, 5, 6, 7\}, B = \{5, 6, 8, 9\}, C = \{2, 3, 5, 7, 8\}$$



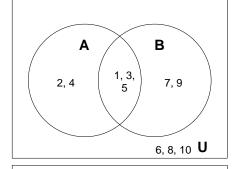
Use a Venn diagram similar to the one above to shade each set:

- 15. $A \cap B \cap C$
- 16. $A \cup B \cup C$
- 17. $A \cap B \cap C'$
- 18. $A' \cap B \cap C'$
- 19. $(A \cap B) \cup C$
- 20. $A \cap (B \cup C)$
- 21. $C \cap (B \cap A)'$
- 22. $(A \cup B \cup C)'$
- 23. $(A \cap B) \cup (A' \cap C)$

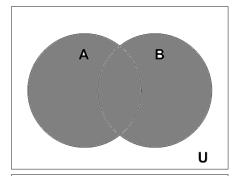
Contemporary Math (MAT-130)

Solutions:

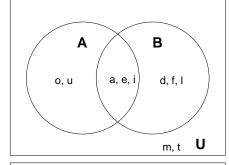
1.



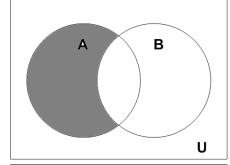
5.



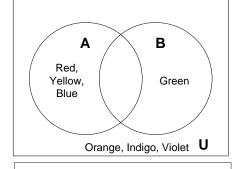
2.



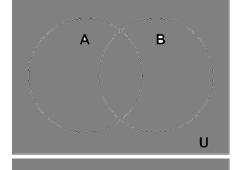
6.



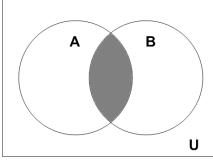
3.



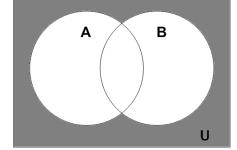
7.



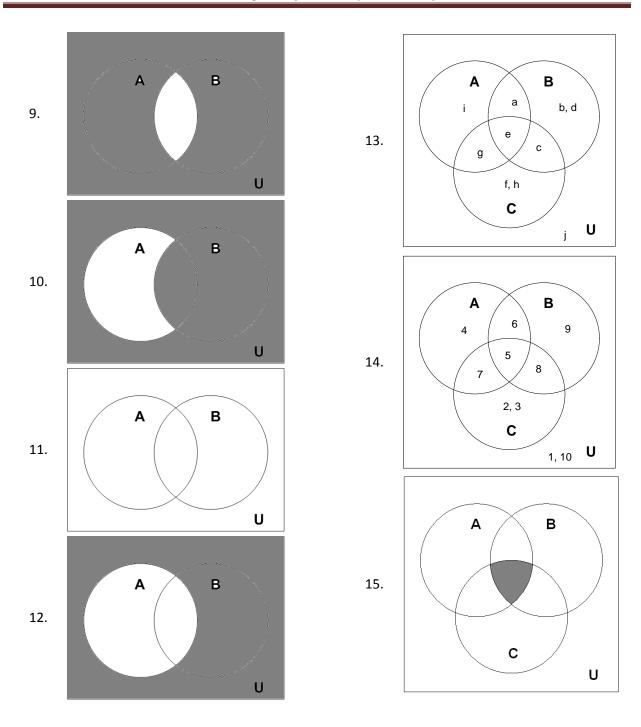
4.



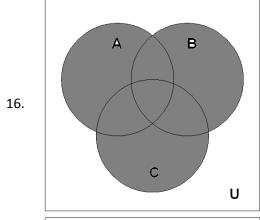
8.

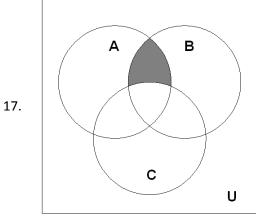


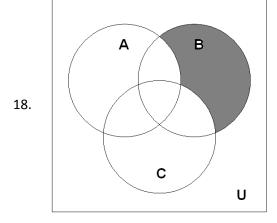
Contemporary Math (MAT-130)

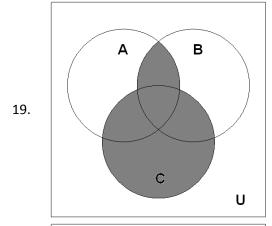


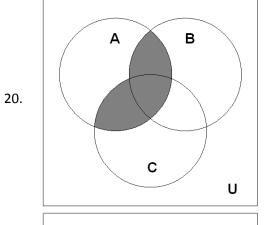
Contemporary Math (MAT-130)

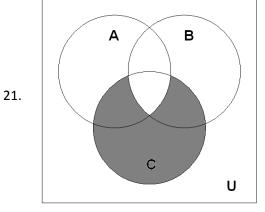












Contemporary Math (MAT-130)

